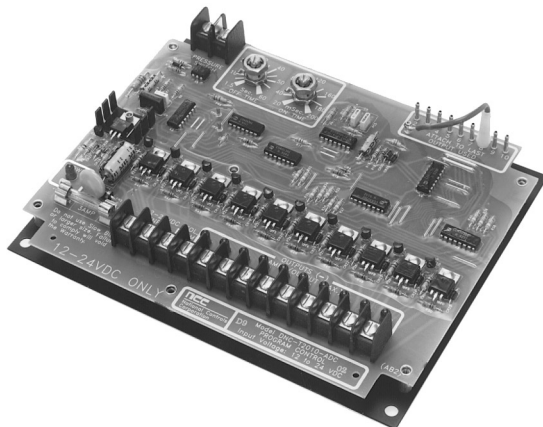


**Features**

- Field Selectable from 2 to 10 Outputs
- Completely Solid-state Timing and Switching Logic
- 300% Overrated Solid-state Switch
- Pressure Switch Control Option On Board
- 12 to 24 Volts D.C. Input Voltage
- Adjustable "On" and "Off" Times
- High Quality Locking Bushing Potentiometers for Timing Adjustment
- Very Low Power Consumption
- RTV Protective Coating for Corrosion and Moisture Resistance
- LEDs Show Compartment Being Cleaned
- Metal Chassis Provided For Mounting Directly Into NEMA-4 Enclosure



# Dust Collector Controls

## DC Input, Pulse Cleaning of bag House Dust Collectors Model **DNC-T2010-ADC**

**Operating Logic:** The control can function in 2 modes:

**Continuous Mode:** The pressure switch terminals are shorted. Upon application of output voltage, the control activates output #1 after the preset off time. It will continue to activate outputs sequentially until input voltage is removed.

**On Demand Mode:** The pressure switch terminals are connected to an isolated set of contacts of a differential pressure switch. The control will activate the outputs sequentially whenever the pressure switch contacts are closed. When the pressure switch contacts open, the output sequencing stops. Re-closing of the contacts will cause the control to resume activating the outputs.

Program wire allows the user to select the maximum number of outputs to be activated.

*Note: Controls are shipped with jumper across pressure switch terminals.*

### Specifications

#### Time Setting Ranges

**On Time:** Adjustable from 20 to 200 milliseconds

**Off Time:** Adjustable from 1.5 to 60 seconds

**Repeatability:**  $\pm 3\%$  over temperature & voltage ranges

#### Input

**Operating Voltage:** 10.0 to 29.0 VDC  
(Unfiltered supply voltage must be full-wave rectified.)

**Power Consumption Voltage During Off Time:** 1.5 Watts @ 12 VDC, 4.2 Watts @ 24 VDC

#### Output

**Type:** Solid-state switch

**Load Per Output:** 3 Amp maximum @ 1.5 V less than input voltage

#### Protection

**Transient Input Voltage:** Metal oxide varistor plus large filter capacity

**Transient Output Voltage:** Solid-state switch rated at 10 Amps. - 60 Volts fly-back diode protected

**Short Circuit Protection:** 3 Amp fuse for circuit, Reverse polarity protected

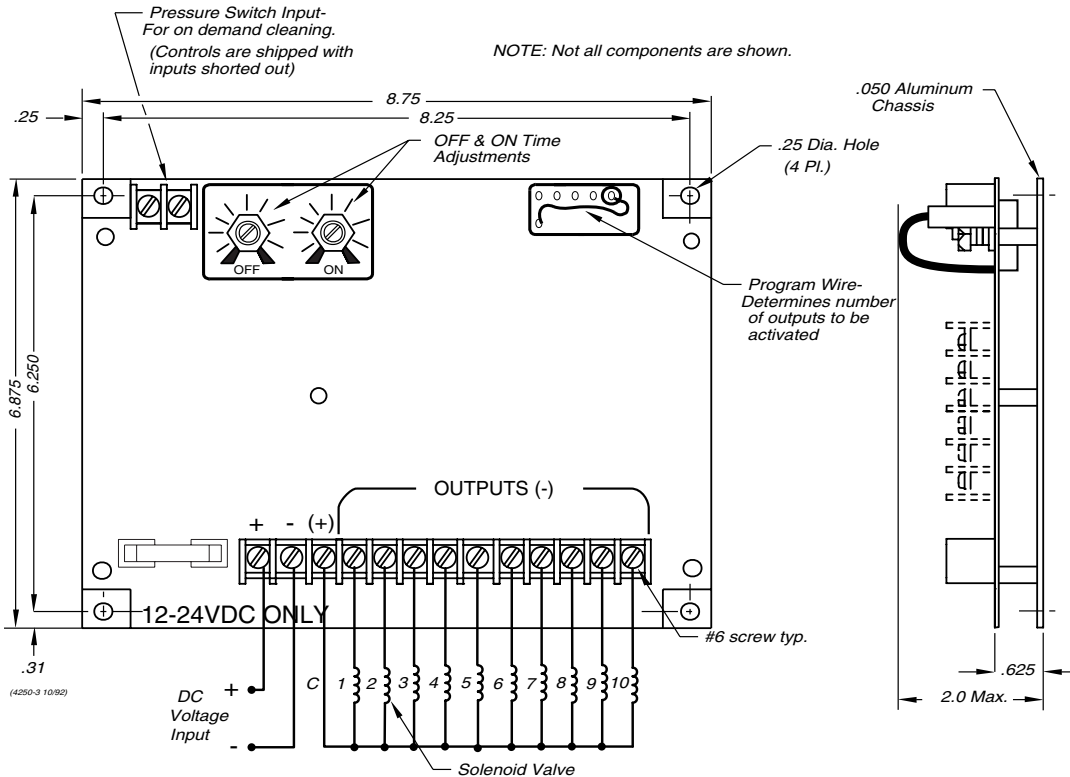
#### Environmental

**Operating Temperature:** -40°F to 150°F  
(-40°C to 60°C)

**Storage Temperature:** -40°F to 185°F  
(-40°C to 85°C)

### Ordering Information

No. of Outputs	Input Voltage	Off Time (In Seconds)	Part Number
2 - 10	12 - 24 VDC	1.5 - 60	DNC-T2010-ADC



**Accessories:**

Description	Dimensions	Part Number
NEMA-4 BOX	10" x 8" x 4"	BOX-A1008-CHNF
NEMA-4 BOX	12" x 10" x 5"	BOX-A1210-CHNF
On/Off Switch	NEMA-4 Rated w/ Legend Plate	MSW-0DPST-011

National Controls Corporation offers NEMA 4 type enclosures for mounting our controls. These enclosures are made of heavy gauge steel and have a continuous hinge cover. All seams are continuously welded. The finish is gray hammer-tone enamel inside and out, over phosphatized surfaces.

Note. In order to keep abreast of the latest technology, National Controls Corporation reserves the right to change components and/or design of controls without notice.

**Important Notice to Users:**

Our timers are capable of use in a wide array of devices and in various applications. Any device or system incorporating a timer should be so designed that, in the event of failure, malfunction or normal wear-out of the timer, the system will become inoperative in a manner which will prevent property damage or bodily injury.

**Caution:**

1. Do not mount controls in high vibration areas without shock mounts.
2. Do not mount controls in areas of high dust or corrosive atmospheres without a protective enclosure.
3. Do not use a converter or inverter for the power source.
4. Do not mount control in high transient voltage areas without an isolation transformer
5. Do not leave control box open.
6. Do not allow a local repair shop to repair the controls, as we employ some very sophisticated components that could be further damaged. For service, call us directly: 800-323-2593